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IMPORTANT

Follow all warnings and instructions marked on this television receiver.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS TELEVISION SYSTEM TO RAIN OR MOISTURE.

NOTE:

- There are no user serviceable parts inside the receiver.
- Model number and serial number are indicated on the back side of the set.



POWER SOURCE:

This projection color TV is designed to operate on 120 volts 60 Hz, AC household current.

Insert power cord into a 120 volt 60 Hz outlet.

TO PREVENT ELECTRIC SHOCK, DO NOT USE THE TELEVISION'S PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLET UNLESS THE BLADES AND GROUND TERMINAL CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NEVER CONNECT THE TV TO 50 Hz, DIRECT CURRENT, OR ANYTHING OTHER THAN THE SPECIFIED VOLTAGE.

NOTE: This television receiver will display television closed captioning ( or ) , in accordance with paragraph 15, 119 of the FCC rules.



CAUTION: Never remove the back cover of the set as this can expose you to very high voltages and other hazards. If the set does not operate properly, unplug the set and call your dealer or service shop. HITACHI's 60SX8B, 60SX9K and 50SX6P employ state-of-the-art computer circuits to enhance picture performance. Should your projection TV become unplugged from the AC wall outlet or lose AC power due to a local power failure, please wait at least 30 seconds following the return of power before turning on your TV. This will allow the computers time to check/ correct any internal errors caused by the loss of power.

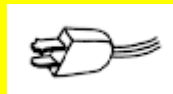
SAFETY TIPS

IMPORTANT SAFEGUARDS**SAFETY POINTS YOU SHOULD KNOW ABOUT
YOUR HITACHI TELEVISION RECEIVER****CAUTION:**

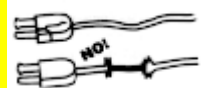
- * Read all of these instructions.
- * Save these instructions for later use.
- * Follow all warnings and instructions marked on the television receiver.

Our reputation has been built on the quality, performance, and ease of service of HITACHI television receivers.

Safety is also foremost in our minds in the design of these units. To help you operate these products properly, this section illustrates safety tips which will be of benefit to you. Please read it carefully and apply the knowledge you obtain from it to the proper operation of your HITACHI television receiver. Please fill out your warranty card at once and mail it to HITACHI. This will enable HITACHI to notify you promptly in the improbable event that a safety problem should be discovered in your model of product.

FOR YOUR PERSONAL SAFETY

1 This television set is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



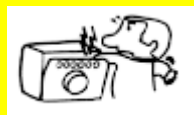
2 When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.



3 Do not overload wall outlets and extension cords as this can result in fire or electric shock.



4 Do not allow anything to rest on or roll over the power cord, and do not place the TV where the power cord is subject to traffic or abuse. This may result in a shock or fire hazard.



5 Do not attempt to service this television set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



6 Never push objects of any kind into this television set through cabinet slots as they may touch dangerous voltage points or short out parts that could

SAFETY TIPS

result in a fire or electric shock. Never spill liquid of any kind on the television set.



7 If the television set has been dropped or the cabinet has been damaged, unplug this television set from the wall outlet and refer servicing to qualified service personnel.



8 If liquid has been spilled into this television set, unplug it from the wall outlet and refer service to qualified service personnel.



9 Do not subject your television set to impact of any kind. Be particularly careful not to damage the picture tube surface.



10 Unplug this television set from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



11-1 Do not place this television set on an unstable cart, stand, or table. The television set may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television set. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.



11-2 An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PROTECTION AND LOCATION OF YOUR SET

12 Do not use this television set near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



- Never expose the set to rain or water. If the set has been exposed to rain or water, unplug the set from the wall outlet and refer servicing personnel.



13 Choose a place where light (artificial or sunlight) does not shine directly on the screen.



14 Avoid dusty places, since accumulated dust inside the chassis may cause failure of the set when high humidity persists.

15 The set has slots, or openings in the cabinet for ventilation purposes, to provide reliable operation of the receiver, and to protect from overheating. These openings must not be blocked or covered.



- Never cover the slots or openings with cloth or other material.



- Never block the bottom ventilation slots of the set by placing it on a bed, sofa, rug, etc.



- Never place the set near or over a radiator or heat register.



- Never place the set in a "built-in" enclosure, unless proper ventilation provided.

PROTECTION AND LOCATION OF YOUR SET

16-1 If an outside antenna is connected to the television set, be sure the antenna system is protected against voltage surges and built up static charges, Section 810 of the National Electrical Code, NFPA No. 70-1975, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrode, and requirements for the grounding electrode.

Click to see antenna grounding diagram.

16-2 **Note to CATV system installer:** (Only for the television set with CATV reception) This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



17 An outside antenna system should not be located in the vicinity of overhead power lines or other electrical lights or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.



18 For added protection for this television set during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage due to lightning and power-line surges.

OPERATION OF YOUR SET



19 This television set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply at your home, consult your television dealer or local power company. For television sets designed to operate from battery power, refer to the operating instructions.



20 If the television set does not operate normally by following the operating instructions, unplug this set television set from the wall outlet and refer servicing to qualified service personnel. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television set to normal operation.



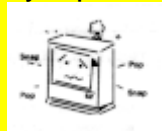
21 When going on a holiday: If your television set is to remain unused for a period of time, turn the television set "off" and unplug it from the wall outlet.

IF THIS SET DOES NOT OPERATE PROPERLY



22 If you are unable to restore normal operation by following the detailed procedure in your operating instructions, do not attempt any further adjustment. Unplug the set and call your dealer or service technician.

23 Whenever the television set is damaged or fails, or a distinct change in performance indicates a need for service, unplug the set and have it checked by a professional service technician.



24 It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer or service technician.

FOR SERVICING AND MODIFICATION



25 Do not use attachments not recommended by the television set manufacturer as they may cause hazards.

26 When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.



SAFETY TIPS

27 Upon completion of any service or repairs to the television set, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.

PICTURE CAUTIONS

WARNING

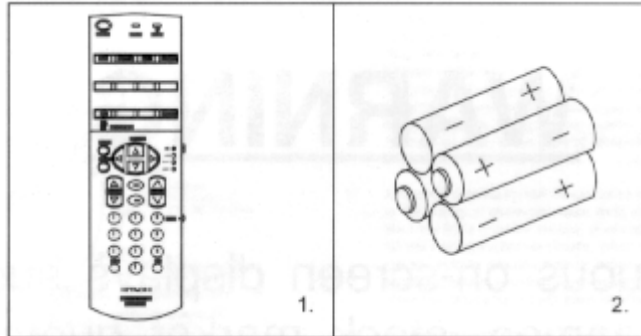
Continuous on-screen displays such as video games, stock market quotations, computer generated graphics, and other fixed (non-moving) patterns can cause permanent damage to projection television receivers. Such "PATTERN BURNS" constitute misuse and are NOT COVERED by your Hitachi Factory Warranty.

When using the Picture-in-Picture function, the sub-picture should not be left permanently in one corner of the screen or a "pattern burn" may develop over a long period of time.

This projection television receiver was intended mainly for the private viewing of programs broadcast by TV stations and cable companies and programs from other video sources. Public viewing may require prior authorization from the broadcaster or owner of the video program.

ACCESSORIES

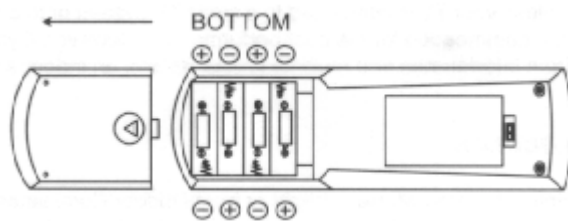
Check to make sure you have the following accessories before disposing of the packing material.



1. Genius Remote Control Unit CLU-850GR (part No.2573971)
2. Four "AA" size (SUM-3), 1.5 V batteries (For Remote Control Unit)

REMOTE CONTROL BATTERY INSTALLATION AND REPLACEMENT

1. Open the battery cover of the remote transmitter by pushing the notched part of the cover with your fingers.
2. Insert four new "AA" size batteries equivalent for the Genius Remote. When replacing old batteries, push them towards the springs and lift them out.
3. Match the (+) and (-) marks in the battery compartment.
4. Replace the cover.



HOW TO SET UP YOUR NEW HITACHI PROJECTION TV

ANTENNA

Unless your TV is connected to a cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for the best performance. However, if you are located in an exceptionally good signal area that is free from interference, and multiple image ghosts, an indoor antenna may be sufficient.

LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows free flow of air to and from the perforated back cover of the set. To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot. For example, in direct sunlight or near a heating appliance, etc.

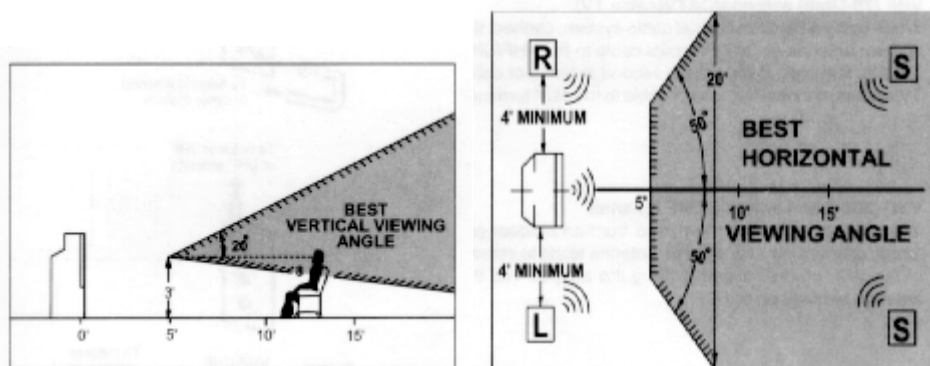
VIEWING

The major benefit of the HITACHI Projection Television is its large viewing screen. To see this large screen at its best, test various locations in the room to find the best spot for viewing. The drawings give several suggestions.

The best picture is seen by sitting directly in front of the TV and about 10 to 18 feet from the screen. Picture brightness decreases as the viewer moves to the left or right of the receiver.

During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room.

If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least 4 feet from the side of the TV. Place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.





CAUTION: The magnetic field of external speakers may cause the TV picture to distort if the speakers are placed too close to the television. Move the speakers away from the TV until there is no picture distortion.

FRONT PANEL CONTROLS

Click to see front panel diagram.

AVX (Audio/Video) selector

Press this button to select the current antenna source, VIDEO: 1, 2, or 3. Your selection is shown in the top right corner of the screen.

VOLUME level

Press these buttons for your desired sound level. The volume level will be displayed on the TV screen.

CHANNEL selector

Press these buttons until the desired channel appears in the top right corner of the TV screen.

POWER button

Press this button to turn the TV on or off.

POWER light

You will see a red light when the TV is turned on.

NOTE: Your HITACHI TV will appear to be turned "off" if there is no video input when VIDEO: 1, 2, or 3 is selected. Check the POWER On indicator to make sure the TV is off when not in use.

AI (Artificial Intelligence) sensor

This "Artificial Intelligence" sensor will make automatic picture adjustments depending on the amount of light in the room to give the best picture. (See page 43)

REMOTE CONTROL sensor

Point your Remote at this area when selecting channels, adjusting volume, etc.

V-SYNC (Vertical Hold) knob

If the TV picture "rolls" up or down, adjust this knob until you get a good picture. This control seldom needs adjustment.

FRONT INPUT JACKS (for VIDEO :3)

Use these audio/video jacks for a "quick" hook-up from a camcorder or VCR to instantly view your favorite show or new recording. (Press the AVX button until VIDEO: 3 appears in the top right corner of the TV screen.)

FRONT PANEL JACKS AND CONNECTIONS

The front panel jacks are provided as a convenience to allow you to easily connect a camcorder or VCR as shown in the following examples:

[Click to see Front Panel Connection examples](#)

NOTE: Completely insert connection cord plugs when connecting to front panel jacks. If you do not, the played back picture may be abnormal. If you have a S-VHS VCR, use the S-INPUT cable in place of the standard video cable.

REAR PANEL JACKS

Click to see Rear Panel Jacks.

Antenna Input / Output

The "ANT" button on the Genius Remote Control allows you to switch between two separate 75-Ohm RF antenna inputs, Main (VHF/UHF) and Auxiliary (AUX). The antenna output labeled "To converter" allows the Main (VHF/UHF) antenna connection to pass directly to a different source such as a pay-TV cable decoder.

Audio/Video Inputs 1, 2

The "AVX" (Auxiliary Video) button will step through each video source and the current antenna input each time it is pressed. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laser disc players, video games, etc.

Output

These jacks provide fixed audio and video signals which are used for recording.

Audio to Hi-Fi

These jacks provide variable audio output to a separate stereo system amplifier. With this connection, the audio to the stereo can be controlled by the television's remote control. Use these jacks for the SURROUND Left and Right channels. (See page 15)

Rear Speaker Terminals

These terminals are used to connect external speakers, which are used for the surround sound feature. The volume level is controlled by the remote control main volume buttons and also by an independent rear volume feature found in the "sound" function menu. Use speakers with 8 Ohm impedance only.

S-Video

Input 1 provides S-Video (Super Video) jacks for connecting equipment with S-Video output capability.

REAR PANEL CONNECTIONS

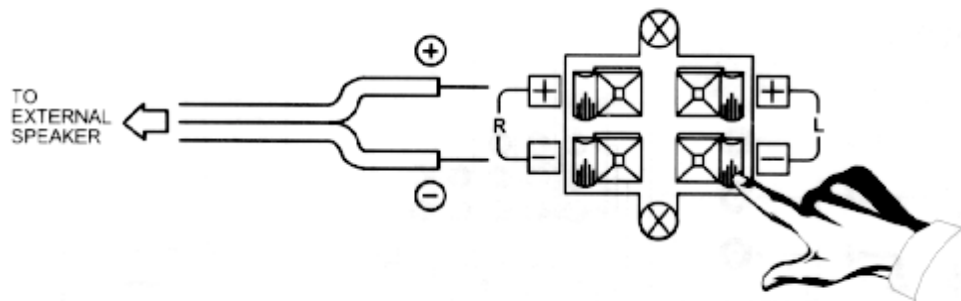
Click to see Rear Panel Connections.

Typical full-feature set-up. Follow connections that pertain to your personal entertainment system.

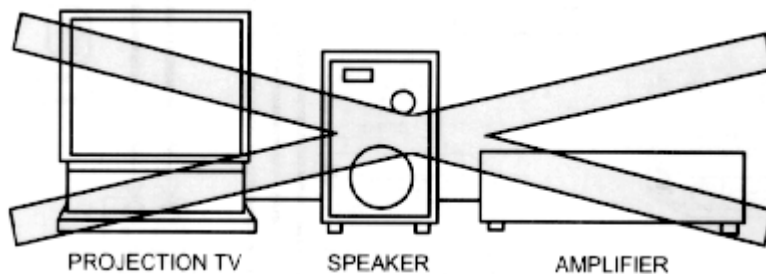
REAR SPEAKER TERMINAL CONNECTIONS

Connect after turning the power to the TV OFF.

Press the Right Speaker red button and insert the positive (+) lead wire into the hole below the button. When the button is released, the wire is locked into place. In the same manner, press the Right Speaker black button and insert the negative (-) lead wire. Repeat this procedure for the Left Speaker.



CAUTION: Do not connect Speakers simultaneously to the REAR SPEAKER terminal of the Projection TV and an external amplifier. This could damage both the TV and the speakers. Your TV was designed to use 8 Ohm speakers only. Any other type may degrade the audio performance of your entertainment system.



TIPS ON REAR PANEL CONNECTIONS

The S-Video connection is provided for high performance laser discs, VCRs, etc., that have this feature. Use this connection in place of the standard video connection if your device has this feature.

If your device has only one audio output (mono sound), connect it to the left audio jack on the TV.

Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.

A single VCR can be used for VCR#1 and VCR#2, but note that a VCR cannot record its own video or line output (INPUT: 1 in the example on pg. 13). Refer to your VCR operating guide for more information on the "line" input-output connections.

AUDIO SYSTEM SET-UP

Match the numbers below to the diagram for speaker placement and refer to the table for the surround sound requirements. (See page 47 for SURROUND functions.)

The television's internal speakers.

These speakers are connected to a separate audio amplifier. Use the "Audio to Hi-Fi" output on the TV.

These speakers are connected to the Rear Speaker 8 Ohm output on the TV.

[Click to see Audio System Set-Up](#)

THE REMOTE CONTROL (CLU-850GR)

In addition to controlling all the functions on your HITACHI Color TV, the new Genius Remote is designed to operate different types of VCR's and different types of CATV (Cable TV) converters with one touch. Basic operation keys are grouped together in one area. All other controls are separated from them and arranged in MULTI-PAGE sections, with a display that can be switched to cover any of the four pages. Functions are arranged and properly categorized into windows, making operation simple when multiple functions are to be controlled

To operate your TV, point the Genius Remote at the remote sensor of the TV.

To operate your VCR, point the remote at the remote sensor of the VCR.

[Click here to see Remote CLU-850GR](#)

READY indicator light

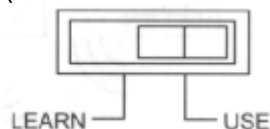
Refer to Page 26.

SEND/LEARN indicator light

Refer to Page 26.

LEARN/USE select switch

(Located on rear side of remote control)



LEARN.....Enters the Learning mode. (Refer to page 26.)

USE.....Set for normal use.

MULTI-PAGE select switch

This selects the button layout of the multi-page section of the remote control.

MULTI-PAGE buttons

These buttons change functions as shown on page 17.

, LIGHT BUTTON

When you are in a dark room, press this button on the side of the remote to light up the buttons shown in . The light will stay on for about 8 seconds if no button is pressed. The buttons will not appear to light if the room is too bright.

MULTI-PAGE WINDOWS

Click to see the Multi-Page Windows of the Remote.

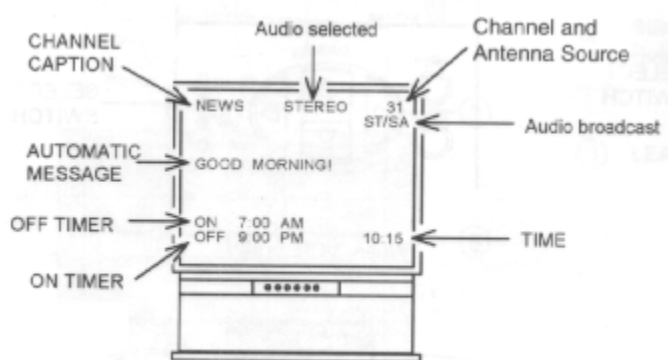
HOW TO USE THE REMOTE TO CONTROL YOUR TV

POWER button

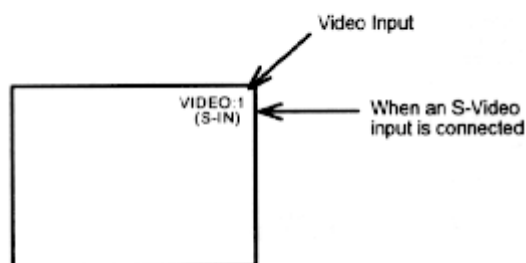
Press this button to turn the TV set on or off. If an automatic message is set, it will be displayed when the TV is first turned on. (See page 41.)

RECALL button

When you want to check the channel being received, or if it has a stereo (ST) or second audio program (SAP), press the RECALL button. You can check the time, and if the ON TIME or OFF TIME has been set. (See page 40.)



If a video input is used:



You can also use the RECALL button to quickly clear many of the other on-screen displays.

Click to see the Remote.

ANT button

Use the ANT (Antenna) button to select between the VHF/UHF and AUX (Auxiliary) antenna inputs.

NOTE: When VHF/UHF is selected, the channel number in the upper right corner of the screen is green. When the AUX input is selected, the channel number is in yellow.

MENU, ENTER, CURSOR buttons

All the on-screen display features can be set or adjusted by using these buttons.

The "MENU" button will start or exit the on-screen display.

The "CURSOR" buttons will highlight functions or adjust different features.

These buttons are also used for FAVORITE CHANNELS. (See page 35)

The "ENTER" button will set features to your preference.
"CHANNEL SELECTOR" buttons are used to set the time, for channel memory, etc..

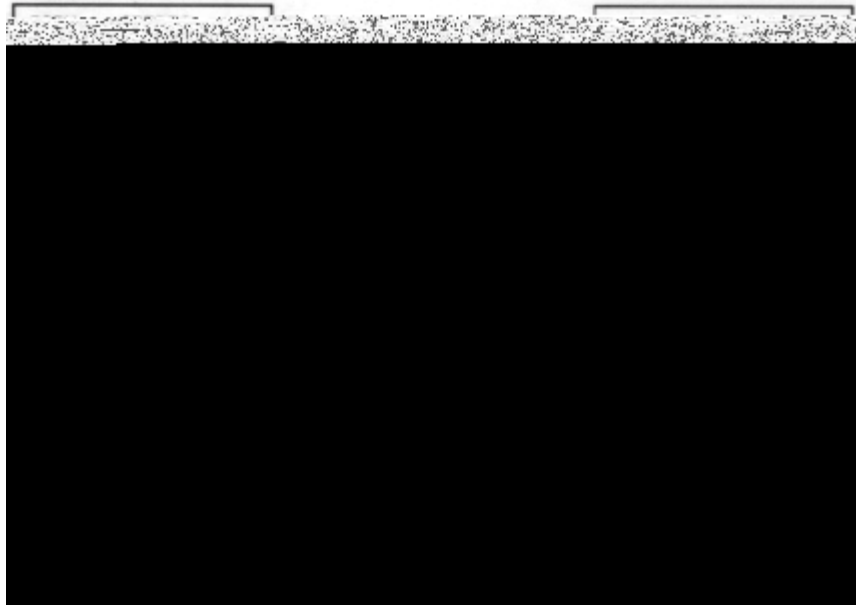
CHANNEL SELECTOR buttons

Enter two or three numbers to select channels. Enter a "0" first for channels 1 to 9. Use the "100" button for channels 100 and higher. Channel selection may also be performed by pressing channel up (▲) or down (▼).

NOTE: The TV may not receive some channels if you are not in the correct AIR/CABLE mode. (See page 32)

AVX button

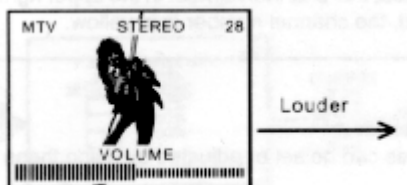
The AVX (Auxiliary Video) button will select between the antenna signal and the three sets of video input jacks each time the button is pressed. If the Picture-in-Picture (PIP) is on, the AVX will select between the three sets of video input jacks. (See page 21)



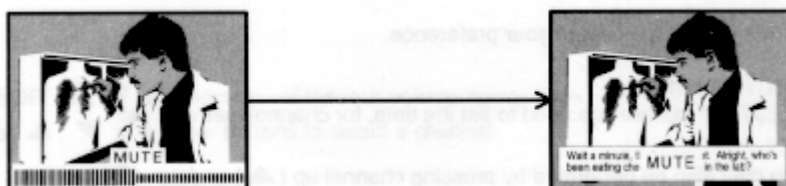
VOLUME, MUTE buttons

Press the "VOLUME" up (▲) or down (▼) button until you obtain the desired sound level.

To turn the sound off instantly to answer the telephone, etc., press the "MUTE" button. Press the "MUTE" button again or press the "VOLUME" up (▲) button to restore the sound.



The word "MUTE" will remain displayed if the CLOSED CAPTION feature is turned off.

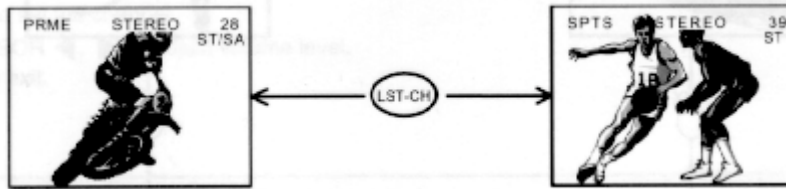


The word "MUTE" will not be displayed if the CLOSED CAPTION feature is on.



LAST CHANNEL (LST-CH) button

Use this button to select between the last two channels viewed. (Good for watching two sporting events, etc.)

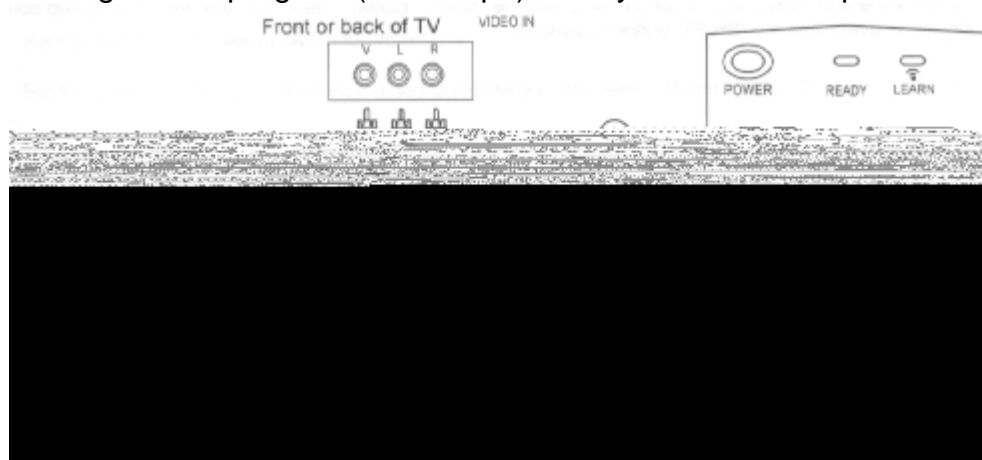


PICTURE-IN-PICTURE buttons

See separate section on page 21 for a description.

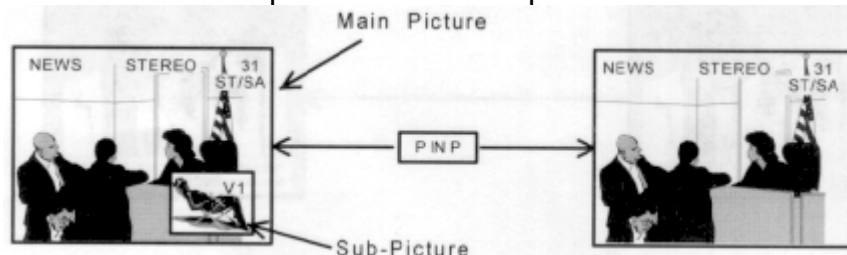
PICTURE-IN-PICTURE (PIP)

The Picture-in-Picture feature is convenient when you want to watch more than one program at the same time. You can watch a TV program while viewing a VCR program (TV or tape) on any of the video inputs.



PIP BUTTON

Press the "P IN P" button and a sub-picture appears in one corner of the screen. Press the button a second time to remove the sub-picture from the screen. Press the AVX button when the sub-picture is on to change between VIDEO: 1, VIDEO: 2 and VIDEO: 3. The TV channel will always be either the main picture or the sub-picture.



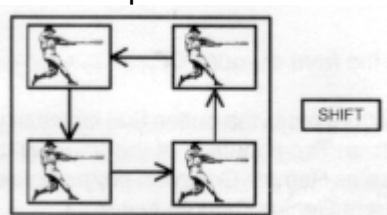
EXCHNG (EXCHANGE) BUTTON

If you wish to switch what is being shown on the main picture to the sub-picture, press the "EXCHNG" button.



SHIFT BUTTON

To move the sub-picture to another corner, press the "SHIFT" button. The sub-picture moves one step counter-clockwise every time the "SHIFT" button is pressed.



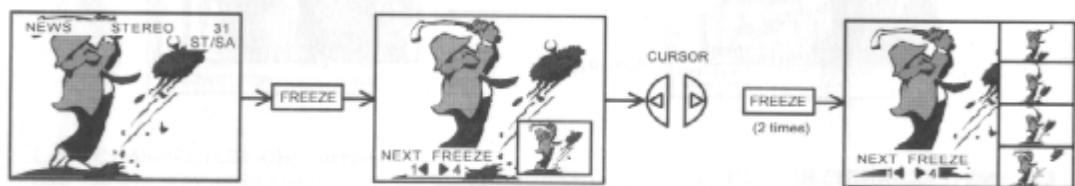
FREEZE BUTTON

If you wish to freeze the sub-picture, press the "FREEZE" button. This is

convenient when trying to write down the address for a mail order company, recording statistics for a sporting event, etc. To return the picture to motion, press the button again.

STROBE FREEZE

Press this button without a sub-picture to freeze one or four frames of the picture you are currently viewing. Press this button again or PIP to return to normal viewing. The four frame strobe freeze is useful for viewing a moving picture that has many details, for example, a close play in a sporting event or a golf swing.



CAUTION: A pattern burn may develop if the sub-picture is left in the same corner permanently. If the PIP feature is used frequently, occasionally shift the sub-picture to a different corner.

NOTE:

1. Only sound from the main picture can be heard.
2. P-IN-P will not work with a CHILD LOCK channel as the Main Picture but it will be displayed as a Sub-Picture.
3. The Sub-Picture will not appear while a FAVORITE CHANNEL is being selected. The Sub-Picture will reappear after the FAVORITE CHANNEL display is gone.
4. Each strobe freeze frame is delayed about 0.1 (1/10) second.

USING THE REMOTE TO CONTROL VCR FUNCTIONS

Operating the pre-coded function for your VCR

This Genius Remote is designed to operate different types of VCRs. You must first program the Genius Remote to match the remote system in your VCR. (Refer to Table 1 on page 25).

1. Set the MULTI-PAGE select switch to "VCR".
2. Set the USE/LEARN mode select switch on the rear side of the Genius Remote to "USE."
3. Turn ON your VCR.
4. Aim the Genius Remote control at the front of your VCR.
5. While holding down the SELECT button, press the button that matches your VCR as shown on page 25. Continue to hold down both buttons. The channels of the VCR will begin changing when the correct button is pressed. When this occurs, the Genius Remote Control is programmed for your VCR. If the VCR channels do not change after 5 seconds, try a different Genius Remote button.
6. Release both buttons when the VCR starts to change channels. The Genius Remote will now control your VCR.

[Click here](#) to see the CLU-850GR in the VCR position.

NOTES:

1. If your VCR cannot be operated after performing the above procedures, this means that your VCR's codes have not been precoded into the GENIUS REMOTE. Please store your VCR codes in memory by using the USER mode. (Refer to page 26.)
2. The GENIUS REMOTE CONTROL will remember the codes you have programmed in until the batteries are removed from the GENIUS REMOTE CONTROL. After replacing the batteries repeat the entire programming procedure stated above.
3. If you have a play back only VCR (no CH UP/DOWN function), please follow operating step 5 described above and then check a VCR function until you find the button that will allow the precoded VCR buttons to operate your VCR.

PRECODED VCR BUTTONS

These buttons always transmit the chosen precoded VCR codes.

SELECT BUTTON

This is for setting up the Genius Remote to transmit the VCR's remote codes.

EXCLUSIVE TV BUTTONS

These buttons are for operating the TV.

USING THE REMOTE TO CONTROL CABLE BOX FUNCTIONS

Operating the pre-coded function for your Cable Box

This Genius Remote is designed to operate different types of cable boxes. You must first program the Genius Remote to match the remote system in your cable box. (Refer to Table 2 on page 25).

1. Set the MULTI-PAGE select switch to "CATV".
2. Set the USE/LEARN mode select switch to "USE."
3. Turn ON your cable box.
4. Aim the Genius Remote control at the front of your cable box.
5. While holding down the SELECT button, press the button that matches our cable box as shown on page 25. Continue to hold down both buttons. The channels of the cable box will begin changing when the correct button is pressed. When this occurs, the Genius Remote Control is programmed for your cable box. If the cable box channels do not change after 5 seconds, try a different Genius Remote button.
6. Release both buttons when the cable box starts to change channels. The Genius Remote will now control your cable box.

[Click here to see the CLU-850GR in the CATV position.](#)

NOTES:

1. If your cable box cannot be operated after performing the above procedures, this means that your cable box codes have not been precoded into the GENIUS REMOTE. Please store your cable box codes in memory by using the USER mode. (Refer to page 26.)
2. The GENIUS REMOTE CONTROL will remember the codes you have programmed in until the batteries are removed from the GENIUS REMOTE CONTROL. After replacing the batteries repeat the entire programming procedure stated above.

PRECODED FOR CABLE BOX

These buttons always transmit the chosen precoded CATV codes.

SELECT BUTTON

This is for setting up the cable box's Pre-code.

EXCLUSIVE TV BUTTONS

These buttons are for operating the TV.

VCR AND CABLE BOX CODES

TABLE 1. VCR Precoded remote controls

VCR BRAND	Press SELECT and this button
Audio Dynamics	VOLUME ▼
Canon	6
Citizen	0
Craig	VOLUME ▲
Curtis Mathis	2 / 6
dbx	VOLUME ▼
Dimensia	2
Emerson	100/ENTER
Fisher	VOLUME ▲
GE	2 / 6
Goldstar	0
Hitachi	1
Instant Replay	6
JC Penny	1 / 6 / 9 / VOLUME ▼
JVC	0 / VOLUME ▼
Kenwood	0 / VOLUME ▼
Magnavox	4 / 6
Marantz	9 / VOLUME ▼
Marta	0
Memorex	6 / VOLUME ▲
MGA	7
Minolta	1
Mitsubishi	7
Montgomery Wards	CHANNEL ▲
NEC	9 / VOLUME ▼
Panasonic	6
Pentax	1
Philco	4 / 6
Philips	4 / 6
Pioneer	1
ProScan	2
Quasar	6
RCA	1 / 2
Realistic	6 / 9 / CHANNEL ▲ / VOLUME ▼
Sanyo	9 / VOLUME
Scott	7 / 8
Sears	1 / 9
Sharp	CHANNEL ▲
Sony	5 / MUTE / AVX
Sylvania	4 / 6
Tashiko	0
Technics	6
Toshiba	1 / 8
Vector Research	VOLUME ▼
Video Concepts	VOLUME ▼
Wards	CHANNEL ▲
Yamaha	0 / VOLUME ▼
Zenith	3 / 5

TABLE 2. Cable Box Precoded remote controls

CATV brand	Press SELECT and this button
General Instrument	0 / 1 / 2 / 3
Hamlin	4
Jerrold	1 / 2 / 3 / 3
Magnavox	9
Panasonic	8
Philips	9
Pioneer	7
Regal	4
Scientific Atlantic	6
Viewstar	9
Zenith	5

USING THE GENIUS REMOTE TO LEARN ADDITIONAL FUNCTIONS

The Genius Remote is equipped with a learning function which allows it to learn additional infrared control codes. This remote will not only control the television, a VCR, and a cable box, but also other electronic equipment which uses an infrared remote transmitter, by learning the transmitter's codes.

Only infrared remote control codes can be stored in memory.

Before starting the memory operation

Since the infrared signals sent from the remote transmitter may be reflected by a wall, door, etc., even if the transmitter is not pointed directly at the device, it may operate. When storing the remote control codes of another device, turn OFF the power of the device (VCR, Cable Converter, etc.)

If you do not do this, the device may work unexpectedly. The power could be turned ON, an important tape could be erased, the volume could increase too much, etc..

Click to see CLU-850GR in the USER position

LEARNABLE BUTTONS

These buttons can "learn" the codes of other remote control transmitters when the MULTI-PAGE select switch is set to the "USER" mode.

MULTI-PAGE keys (A through L): No codes have been factory stored to these keys.

Learning buttons other than MULTI-PAGE buttons: the codes for the TV have been stored in memory. However, the remote control codes of other equipment (cable converter, audio equipment, etc.) can be stored using the learning function as shown on page 27, 28.

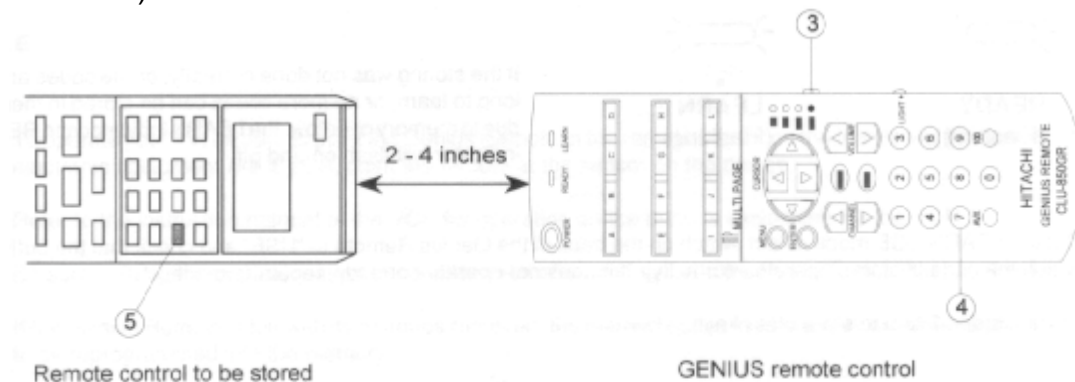
EXCLUSIVE BUTTONS

These buttons are for operating the TV.

Storing Operation

Set the remote transmitter as shown below.

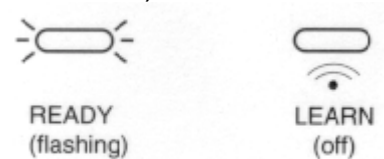
Put the remote transmitter which contains the codes to be stored and the GENIUS REMOTE transmitter to face each other. (Distance should be 2 - 4 inches.)



Set the LEARN/USE mode select switch located on the back of the Genius Remote to the LEARN position.

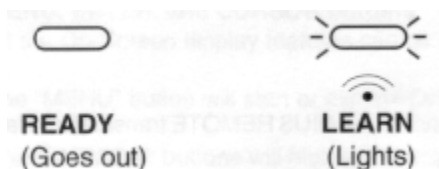
Set the MULTI-PAGE select switch to "USER" position.

Press one of the learnable buttons on the Genius Remote, ("7" in this example). This button will be used to store the new code. The READY indicator will flash at this time. (The light will remain lit for approximately 15 seconds. If no other function is performed at this time, the operation is canceled.)

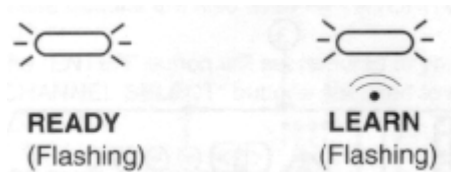


The Genius Remote is ready to receive an infrared code from another remote.

Press and hold the button down on the other transmitter which contains the code to be stored, while the READY light is flashing on the Genius Remote. Release the button after both the READY and LEARN indicators light and then go OFF.



When storing has been performed correctly, the LEARN indicator lights for about 2 seconds.



If the storing was not done correctly, or the codes are too long to learn, or no more codes can be stored in memory due to memory overflow, the LEARN indicator and READY indicator will flash ON and OFF.

Set the LEARN/USE mode select switch on the back of the Genius Remote to "USE" and check that the button to which the code is stored operates correctly. If it does not operate correctly, repeat from step 1.

Repeat steps 3 to 5 to store other keys.

To clear the stored codes from the USER mode

Set the MULTI-PAGE select switch to the USER mode and LEARN/USE mode select switch to "LEARN". Then, press the POWER and the MUTE buttons simultaneously for 3 seconds. The "READY" and "LEARN" LEDs will light together. All MULTI-PAGE KEYS with codes are reset to their initial states.

To remember stored codes, it is convenient to paste the labels (user's label) provided on the buttons for the USER page. If the correct labels are not provided, it is possible to write these letters on an empty label with a ballpoint pen.

Example of User's Labels

NOTE:

1. To operate your TV, be sure to point the Genius Remote at the remote sensor on the television. To operate other electronic equipment like a VCR, point the remote at the sensor on the device.
2. Refer to the instruction manual of the VCR for operation on the buttons exclusively for the VCR.

3. Be sure to keep the original remote transmitter even after storing its codes in the Genius Remote Control.
4. If the Genius Remote is left with its batteries removed, the learned codes in its memory are erased and will have to be reprogrammed into the memory.
5. The Genius Remote Control may not be able to learn certain special remote codes.

CAUTION ON BATTERIES:

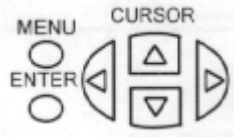
1. The Genius Remote Control is working when the LEARN indicator lights up when a button is pressed.
2. When you press a button and the learn indicator will not light up or if the operation is extremely slow, this is an indication that the batteries should be replaced.
3. Even if the batteries seem dead, do not remove them until you have replacement batteries ready to put in. The codes stored in memory will be erased in a few minutes without power. When replacing batteries, prepare the new ones first.

EASY GRAPHIC GUIDE

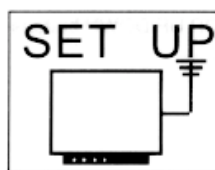
Press MENU on the remote control to display the different features on your HITACHI TV. The feature to be selected will be highlighted in a magenta (purple) color.

Press the CURSOR buttons to highlight a different feature.

Press ENTER on the remote control to select a feature.



NOTE: Press the CURSOR buttons first to view FAVORITE CHANNELS (See Page 35.)



AIR/CABLE Select antenna or cable TV.

AUTO PROGRAM First time setup for channel buttons.

CHANNEL MEMORY Channel buttons, add or skip.

CLOSED CAPTION Feature to display dialogue/text.



Return video and audio adjustments to factory settings.

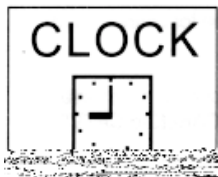


CHANNEL CAPTION Label channels PAY1, ABC, etc.

CHILD LOCK Block channel picture & sound.

PROGRAM LIST Check channel name, scan, child-lock.

VOLUME CORRECTION Lower volume on selected channels.



CLOCK SET Set before using timer features.

ON/OFF TIMER Turn TV on or off one time or daily.

AUTOMATIC MESSAGE 1 Set for one time or daily.

AUTOMATIC MESSAGE 2 Set for one time or daily.



PREFERENCE ADJUST Adjust color, brightness, etc..

PREFERENCE SETTING Improve picture performance.

CONVERGENCE ADJUST Match red, green, and blue colors to make white.



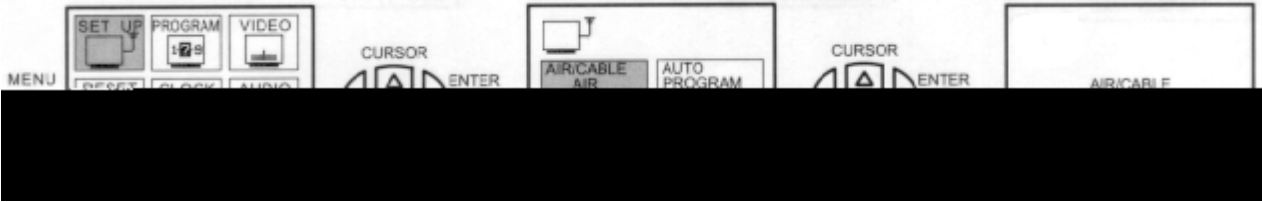
PREFERENCE ADJUST Adjust balance, bass, and treble.

PREFERENCE SETTING Improve sound performance.

SURROUND Special sound effects.

SET UP

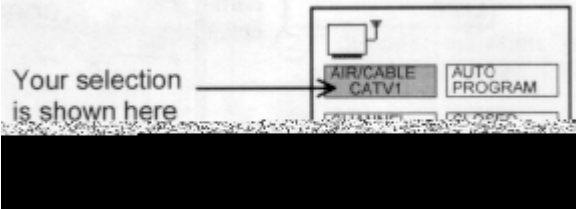
Select SET UP when setting your TV up for the first time. Use the CURSOR UP/DOWN buttons on the remote to highlight the function desired.



AIR/CABLE

Select AIR if you are using an indoor or outdoor antenna. Select CATV if you have cable TV.

Press the CURSOR buttons to highlight the correct AIR/CABLE mode and press MENU to exit. Your choice will be shown on the display.



RECEPTION BAND		
AIR	CATV 1 or CATV 2	
	CATV CHANNEL	Indicated on the screen

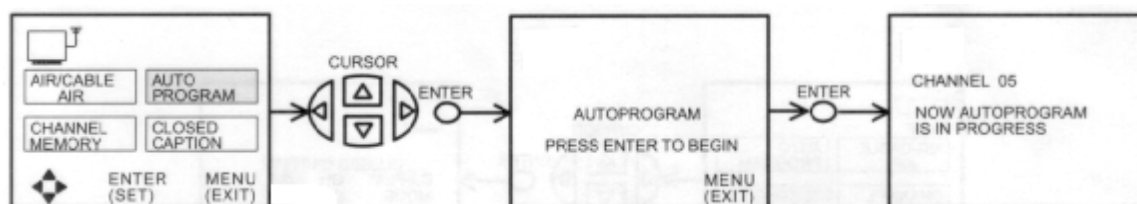
Reception channels for each mode are shown at the left.

Refer to your cable or TV guide for channel identification standards.

If certain CATV channels are poor or not possible in the CATV1 mode, set AIR/CABLE to CATV2.

AUTO PROGRAM

This feature will automatically store active TV channels in CHANNEL MEMORY. This will allow you to skip over unused channels when using the CHANNEL UP (▲) or DOWN (▼) buttons.



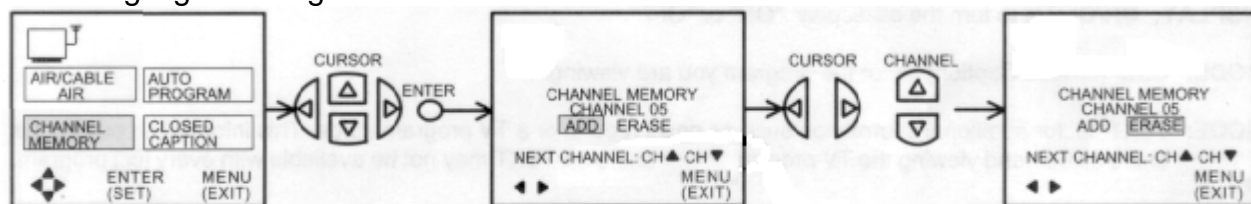
If the MENU button is pressed while the auto programming function is engaged, programming will stop. If two antennas are connected, switch antenna inputs with the ANT button and repeat auto programming for the second antenna input.

Remember to select the correct AIR/CABLE mode before using auto programming for the second antenna input.

See CHANNEL MEMORY to add or erase additional channels.

CHANNEL MEMORY

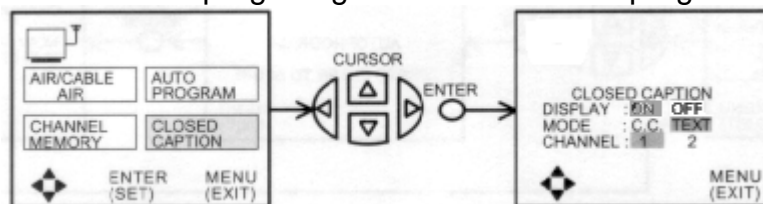
Use this function after AUTOPROGRAM to add or erase additional channels to the remote control CHANNEL (▲), (▼) buttons. Your choice will be highlighted magenta.



Add or erase additional channels while still in CHANNEL MEMORY using the CHANNEL ▲, ▼ buttons or number buttons and then add or erase using the CURSOR ◀, ▶ buttons.

CLOSED CAPTION

Closed captions are the dialogue, narration, and/or sound effects of a television program or home video which are displayed on the TV screen. Your local TV program guide denotes these programs as or .



The selected function will be magenta. Your choice for the function will be blue.

DISPLAY: ON/OFF is to turn the cc display on or off.

MODE: C.C. (Closed Caption) is for the program you are viewing.
MODE: TEXT is for additional information such as news reports or a TV program guide. This information covers the entire screen and viewing the TV program is not possible. TEXT may not be available with every program.

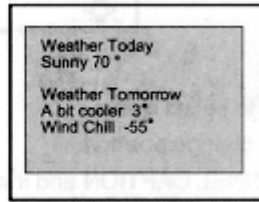
CHANNEL: 1 is used for the primary language (usually English).
CHANNEL: 2 is sometimes used for a second language (may vary by region).

SET UP

Use the CURSOR ▲ or ▼ to highlight the function to change, press ENTER to change the function, and press MENU to exit.



C.C. Selected

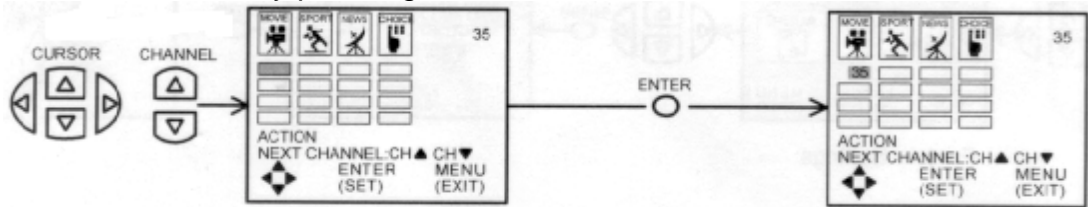


Text Selected

NOTE: The word MUTE will not be displayed if the DISPLAY is ON. If you do not have sound, make sure MUTE is not set.

FAVORITE CHANNELS

The FAVORITE CHANNELS function will allow you to select up to 16 favorite channels by pressing the cursor buttons.



Use the CHANNEL ▲, ▼ or number buttons to select one of your favorite channels.

Use the CURSOR buttons to select the location (in magenta color) for your favorite channel.

Press ENTER to save the channel location.

Enter channel 00 to erase a favorite channel.



Highlight ACTION and press ENTER to use your favorite channels.

Use the CURSOR buttons to highlight a favorite channel and the TV will automatically tune to the channel.

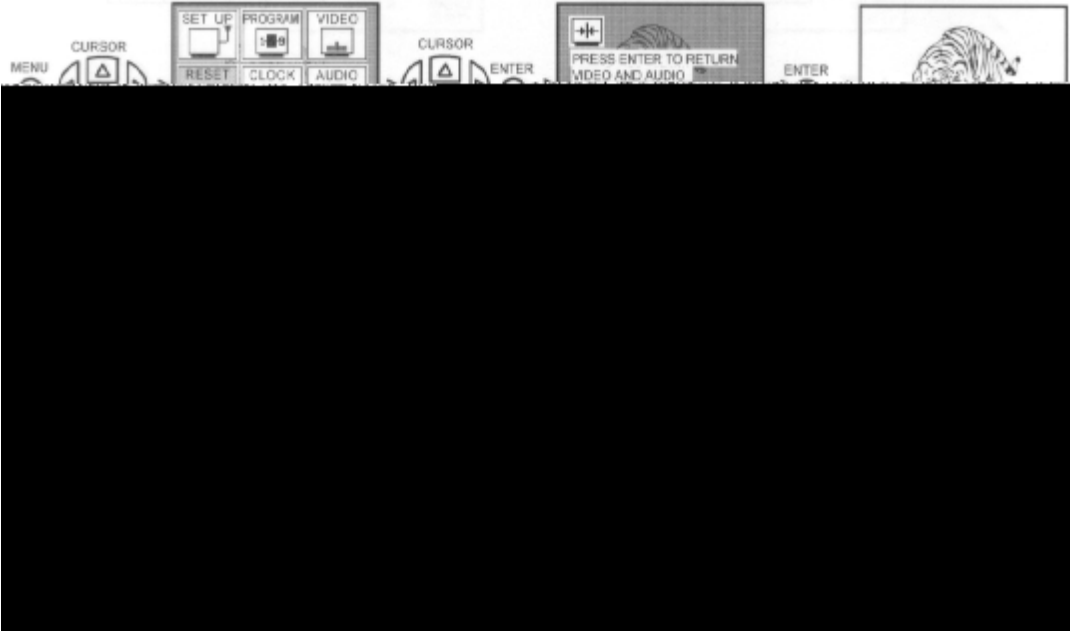
Highlight CH SET and Press ENTER to add or erase more favorite channels.

FAVORITE CHANNEL PREVIEW

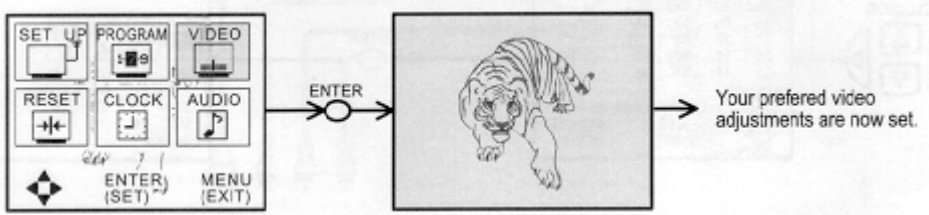
RESET



Use the reset to change your preferred video and audio adjustments to factory settings.



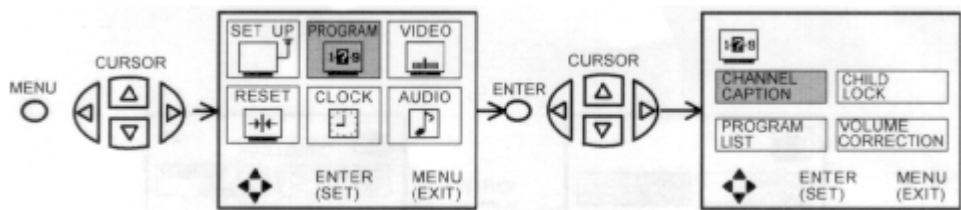
NOTE: This RESET Selection will not change your preferred adjustments. To change back to your adjustments, see VIDEO (Page 42) or AUDIO (Page 45).



PROGRAM

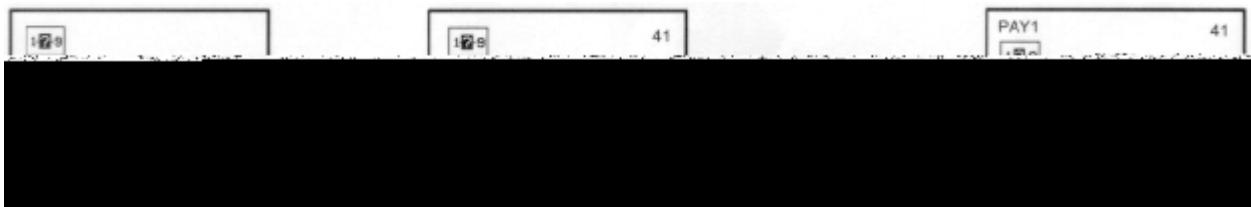


This selection contains advanced features which will make TV viewing easier and more enjoyable.



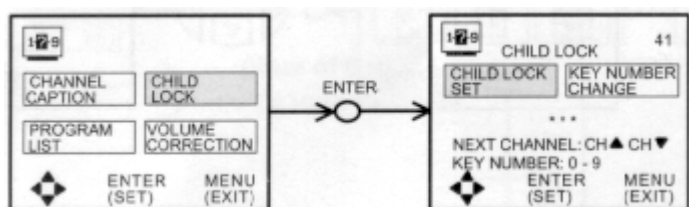
CHANNEL CAPTION

Use this feature to give channel names to up to 30 channels for each antenna source.

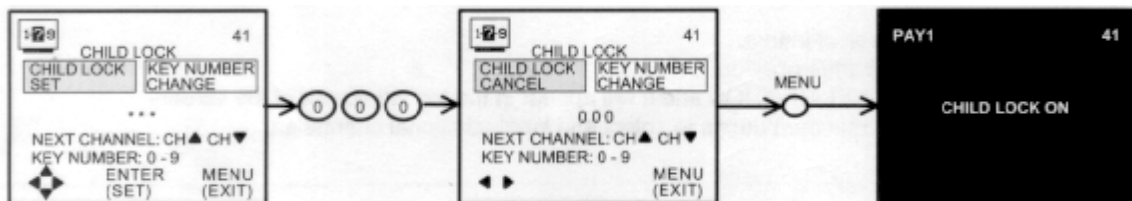


Press the CURSOR ▲, ▼

PROGRAM



The code to set or cancel CHILD LOCK is a three digit key number. The factor preset key number is 000.



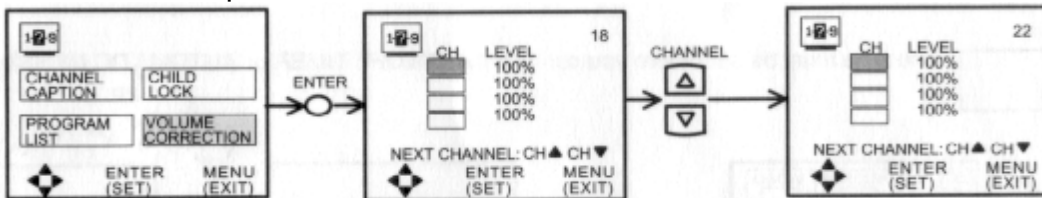
The picture and sound will now be blocked out for this channel. Repeat the same steps to cancel the CHILD LOCK.

To change the key number, select key number change. Enter the old number (factory preset 000 for first time use), then enter a new three digit key number you prefer.

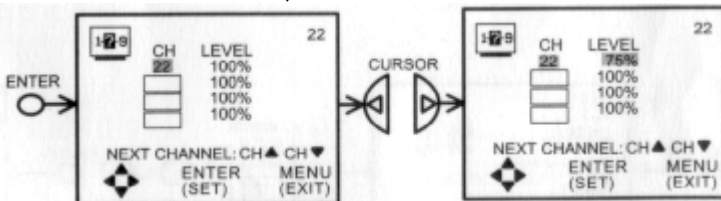
If you forget your key number, use the factory code 777 to erase your key number. This will reset the key number back to the factory preset 000.

VOLUME CORRECTION

Use this function to reduce the volume level of up to four TV channels that sound loud compared to other TV channels.



Press the CURSOR ▲, ▼ to select one of the four volume corrections. Use the Channel ▲, ▼ or number buttons to select a channel.



Press ENTER to set the channel.

Press the CURSOR ◀, ▶ to adjust volume level.

Press MENU to exit.

NOTE:

1. VOLUME CORRECTION adjustment is for the channel displayed in the top right corner of the screen. To adjust a different channel, you must select the channel with the channel or number buttons and press ENTER.
2. If the channel has been corrected before, use the cursor ▲, ▼ to highlight that channel then use the cursor ◀, ▶ to change the level.
3. To erase a channel from the volume correction, select channel 00 and press ENTER.
4. The volume level will change from 50% to 100% in 5% steps.

CLOCK

Use this feature for all time related function.

CLOCK SET

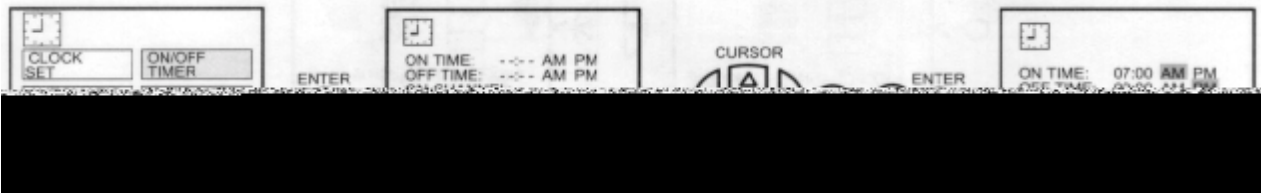
The time must be set before you can use the on/off timer or automatic message.



Use the NUMBER buttons and CURSOR ◀, ▶ to set the time.
The AM or PM selected will be highlighted in blue.

ON/OFF TIMER

This function will automatically turn the TV on or off, one time only or everyday.



The selection to change will be in magenta.
Press the number buttons to select the time the TV will turn on or off. (AM: 1, PM: 2)
Press the CURSOR ◀, ▶ buttons for MODE: ONCE (one time only) or MODE: DAILY (TV will turn on/off at the same time every day).
Press CHANNEL ▲, ▼ or the NUMBER buttons to set the channel the TV will tune to when it automatically turns on.

Your choice for AM/PM and MODE will appear in blue.
Press ENTER to start.
Select CANCEL and press ENTER to erase times.

NOTE: You can set either ON TIME only, OFF TIME only, or both. The mode will be the same for both.

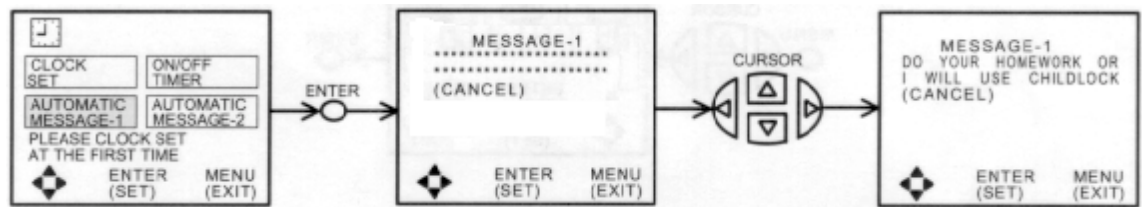


CAUTION: Do not use your TV as a deterrent when away from home by using both the ON and OFF TIMERS. For safety, the TV should be turned off when you are away from home.

AUTOMATIC MESSAGE

Use this function to set one or two personal message once a day or one time only.

CLOCK



Use the CURSOR ▲, ▼ to select a letter or other character.

Use the CURSOR ◀, ▶ to change position.

Press ENTER when message is finished.

The asterisk (*) represents a blank space.

Move the CURSOR ◀, ▶ until (CANCEL) is magenta and press ENTER to erase message.



Use CURSOR ▲, ▼ to choose MODE or TIME.

Use CURSOR ◀, ▶ to set MODE when it is magenta. Your choice will be in blue.

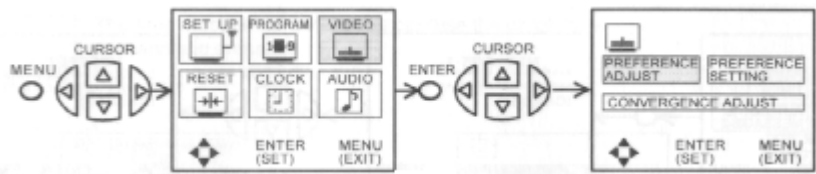
Use the NUMBER buttons to set the time.

Press ENTER to start and MENU to exit.

VIDEO

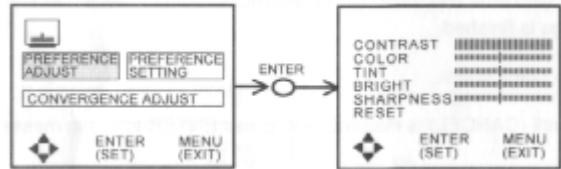


Select VIDEO to adjust picture settings, improve picture quality and to adjust convergence.



PREFERENCE ADJUST

Use this feature to adjust contrast, color, etc.



Press the CURSOR buttons to select and make adjustments.
The function to be adjusted will be in magenta.

CONTRAST- Use this function to change the contrast between black and white level in the picture. This adjustment will only affect the picture when the PICTURE SETTING AI is OFF. (See page 43)

TINT- Use this function to adjust flesh tones so they appear normal.

COLOR- Use this function to adjust the level of color in the picture.

BRIGHT- Use this function to adjust overall picture brightness.

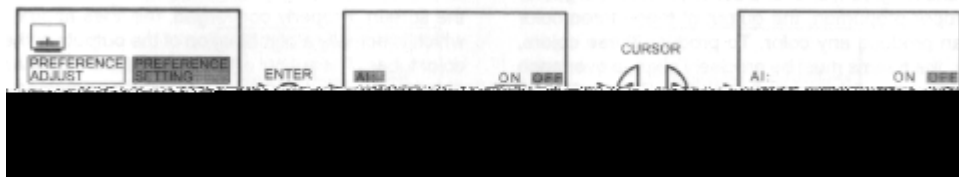
SHARPNESS- Use this function to adjust the amount of fine detail in the picture. This adjustment will only affect the picture when PICTURE SETTING AI is OFF.

RESET- When RESET is selected, press ENTER to return video adjustments to factory preset conditions.

PREFERENCE SETTING

Your HITACHI TV has an AI (Artificial Intelligence) function which will automatically adjust picture settings to produce the highest quality picture possible.

When AI is magenta, use the cursor ◀, ▶ to turn the AI on or off. Your choice will be in blue.



Use the CURSOR ▲, ▼ to select function.

Use the CURSOR ◀, ▶ to turn function on or off. Your choice will be in red.

AI (ARTIFICIAL INTELLIGENCE)

When the AI function is on, the TV's internal computer will perform the following:

1. Automatically monitor and adjust contrast depending on room lighting (sensor is located in the front panel), to produce a more natural picture.
2. Automatically monitor and adjust color levels and maintain natural flesh tones.
3. Automatically compensate for weak or strong TV signals to produce a clear picture. (The SHARPNESS function is automatically adjusted.)

Turn the AI function off to control other PREFERENCE SETTINGS.

AUTOCOLOR

The AUTOCOLOR function automatically monitors and adjusts the color to maintain constant color levels even after a program or channel changes. It also maintains natural flesh tones while preserving fidelity of background colors. For best picture performance leave the AUTOCOLOR function on.

NOISE REDUCER

The NOISE REDUCER automatically reduces conspicuous noise in the picture without degrading picture quality.

SUPER CONTR (SUPER CONTRAST)

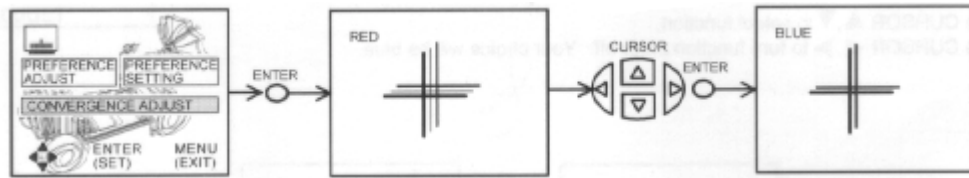
Turn on SUPER CONTR to improve picture detail in areas of high brightness.

CONVERGENCE ADJUST

Your Projection TV has three color projection tubes: one for red, one for green, one for blue. When mixed together in the proper proportion, the output of these three color tubes can produce any color. To produce these colors, however, the beams must be precisely aligned over each other so that the colors can be mixed. The process of aligning these picture beams is called "convergence".

Over a period of time, the picture tubes can drift out of alignment due to normal bumps and vibrations or moving the TV. If you move your TV, or if, after a time, you notice color rings or halos around objects in the picture, you may want to converge (align) the colors.

To simplify convergence, the following feature allows you to display a test pattern of horizontal and vertical lines on the screen. Properly converged, the lines appear white, which is actually a combination of the outputs of the three color tubes. The output of the green tube is stationary. The outputs of the red and blue tubes can be adjusted. When properly aligned, the outputs of all three tubes should be directly over each other to produce the white lines.



Press the CURSOR ▲, ▼ to move the color displayed up or down.

Press the CURSOR ◀, ▶ to move the color displayed left or right.

Press ENTER to change the color.

Press MENU to exit.

NOTE: If the 60SX8B/9K or 50SX6P is unplugged from the wall outlet or there is a power loss, CONVERGENCE may appear to be misadjusted. Wait 30 seconds after the set is plugged in or power returns before turning the set on.

CARE OF YOUR HITACHI PROJECTION TV AND YOUR REMOTE CONTROL

DO

Dust the screen and cabinet with a soft cloth.

Clean the screen with a soft cloth moistened in warm water. Dry with a soft cloth. (A mild soap may be used if the screen is extremely dirty.)

Place your TV and remote control away from extreme heat, humidity and extremely dusty places.

Remove the plug from the wall outlet if your television set will not be used for a long period of time, for instance, when you go on vacation.

DO NOT

Do not clean your screen or cabinet with strong cleaners, polishes or chemically treated cloth.

Do not place rubber or vinyl products or cellophane tape on your set.

Do not touch the screen too often.

Do not subject the Remote Control to shocks such as dropping it on the floor, etc. Physical damage to the precision parts may result.

Avoid placing the Remote Control in a high humidity place or getting it wet.

Don't leave it on or near a heater. Excessive heat or moisture may cause the unit to cease operation.

When the batteries run down, remote control operation will become erratic or possibly stop altogether.

Replace the old batteries with four fresh "AA" size batteries.

Exposure of the viewing screen to prolonged direct sunlight or heat may cause the screen to permanently warp, resulting in a distorted picture.

RECEPTION PROBLEMS



IGNITION NOISE:

Black spots or horizontal streaks may appear, picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills and other electrical appliances.



GHOSTS:

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected from tall buildings, hills or some other objects. Changing the direction or position of the antenna may improve reception. Ghosting may also be caused by defects in the antenna system such as unshielded leads or connecting several sets to the same antenna without using multiple antenna couplers.



SNOW:

If your receiver is located in the fringe area of a television station where the signal is weak, your picture may be marred by the appearance of small dots. When the signal is extremely weak, it may be necessary to install a special antenna to improve the picture.



RADIO FREQUENCY INTERFERENCE:

The interference produces moving ripples or diagonal streaks, and in some cases, causes loss of contrast in the picture.

CHECK HERE BEFORE CALLING FOR SERVICE

CHECK HERE BEFORE CALLING FOR SERVICE

[Click here to see Troubleshooting Chart.](#)

This Projection Television incorporates advanced power surge protection technology designed to protect against component or circuit damage due to external or internal voltage or power surges.

IF YOUR SET SHOULD APPEAR TO HAVE A LOSS OF POWER, PLEASE FOLLOW THIS PROCEDURE:

- 1) Push the power switch (ON/OFF switch) once.
- 2) If there is still no power, wait 30 seconds and push the power switch again.
- 3) If there is still no power, unplug the power cord from the wall. Wait thirty seconds and plug the power cord back in. Push the power switch again.

This protective technology should provide for years of lasting entertainment from your Projection Television.

SPECIFICATIONS

- Features:**
- Superfine Picture Quality
 - 1000 Line Horizontal Resolution (60SX8B, 60SX9K, 50SX6P)
 - 950 Line Horizontal Resolution (other models)
 - Pure Green and Red Filter Lenses
 - Artificial Intelligence System
 - Dolby Pro Logic*/Hall/Matrix 4-Way Surround Sound
 - Genius Remote (Controls many VCR brands, cable boxes, and other audio/video equipment)
 - Easy Graphic Guide On-Screen Display
 - Favorite Channel Preview
 - Full set of Input Jacks, Including S-Video
 - Closed Caption Decoder
 - High Resolution Picture-In-Picture with Strobe Freeze
 - Tuned Port Bass Reflex Speakers

* Registered Trademark Dolby Laboratories

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. number 3,959,590; Canada numbers 1,004,603 and 1,037,877. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

- Inputs:**
- Power Input.....AC 120V, 60 Hz

 - Power consumption (operating)
 - 46UX16B/17K, 50UX18B/19K.....160W
 - 50SX6P, 60SX8B/9K.....161W

 - Power consumption (maximum)
 - 46UX16B/17K, 50UX18B/19K.....230W
 - 50SX6P, 60SX8B/9K.....240W

 - Antenna input impedance.....75 Ohm
 - Channel coverage.....181 ch.
 - VHF-Band.....2 ~ 13
 - UHF-Band.....14 ~ 69
 - CATV Mid Band.....A-5 ~ A-1, A-I
 - Super Band.....J-W
 - Hyper Band.....W+1 - W+28
 - Ultra Band.....W+29 - W+84

 - Video.....1.0Vp-p, 75 Ohm
 - S-Video
 - Luminance (Y).....1.0Vp-p, 75 Ohm
 - Chrominance (C).....0.286Vp-p, 75 Ohm

Audio input impedance.....47k Ohm

SPECIFICATIONS

Average input level.....470mVrms
Maximum input level.....940mVrms

Outputs:
Video.....1.0Vp-p, 75 Ohm

Audio (fixed).....470mVrms, 1k Ohm

Dimensions:	46UX16B/17K	50UX18B/19K	50SX6P
60SX8B/9K			
Height (in.)	49 1/2	51 7/8	51 7/8
60 1/2			
Width (in.)	41 1/8	44 1/8	41 5/8
52 3/8			
Depth (in.)	27	27 1/2	27 1/2
27 7/8			
Weight (lbs.)	221	250	250
391			

NOTE: Due to improvements, specifications in this operating guide are subject to change without notice.

NOTES

NOTES

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HITACHI SERVICE HOTLINE

To locate an authorized HITACHI service facility in the continental U.S.A.

DIAL TOLL FREE

7 days a week, 24 hours a day

800 HITACHI

1-800-448-2244

Hitachi Home Electronics (America), Inc.

Hitachi has made every effort to assure you hours of trouble free operation from your unit. However, should you require service, a network of Hitachi Authorized Service Facilities has been established in all 50 states and Puerto Rico. Each facility will provide you with convenient and expedient assistance. Our service "Hotline" operator will direct you to the Hitachi Authorized Service Facility nearest you. Just present proof of purchase and/or delivery receipts to the Hitachi Authorized Service Facility, and service will be rendered in accordance with the terms of the limited warranty as stated on your warranty card or operating guide.

Should you have any questions regarding in-warranty service, operation or technical assistance, please contact:

Hitachi Home Electronics (America), Inc

3890 Steve Reynolds Blvd

Norcross, GA 30093

Tel: 404-279-5600

Hitachi Sales Corporation of Hawaii

3219 Koapaka St.

Honolulu, HI 96819

Tel: 808-836-3621

WARRANTY CARD, front

HITACHI PROJECTION TV LIMITED WARRANTY

Hitachi Home Electronics (America), Inc.
Hitachi Sales Corporation of Hawaii
Hitachi Home Electronics (America), Inc. and Hitachi Sales Corporation of Hawaii ("Hitachi")
warrant this component in duration as stated below:

Lifetime Lens, 2 Years CRT, 1 Year Parts, 90 Days Screen, 1 Year Labor

Conditions of Hitachi Limited Warranty

Hitachi Projection TVs are warranted to be free of defects in parts and workmanship from the time of purchase by the original owner. If this product is found to be defective, Hitachi will repair or replace defective parts at no charge for the parts to the original owner, subject to the conditions of the Limit Warranty. The labor for the repair or replacement of the defective parts will be provided by Hitachi without charge, subject to the conditions of the Limited Warranty.

1. PARTS - The warranty periods for parts are: Lifetime for main optical lens, 90 days on the screen, 2 years on the CRTs and 1 year on the remaining parts from the date of original purchase. During the applicable limited warranty period for parts, defective parts will be replaced at no charge for the part. Parts used for the replacement will be warranted for the remainder of the original warranty period for that part.

2. LABOR - For a period of 90 days from the date of purchase, Hitachi will repair or replace the screen if it proves to be defective without charge for labor. For all other parts, Hitachi will provide the labor for warranty repair at no charge for the period of one year from date of original purchase. Except for the screen as noted above, the labor service during this one year period includes (at Hitachi's option) either in-home repair or free pick up and delivery.

3. Owner must provide verification of the date of purchase when requesting Limited

Warranty Service. (Dated Sales Receipt Required)

4. All repairs must be performed by a Hitachi Authorized Service Facility.

For information concerning repairs, operation, technical assistance or for obtaining the location of the nearest Hitachi Authorized Service Facility or Parts Distributor, please call the number below.

1-800-HITACHI (1-800-448-2244)

Hitachi Home Electronics (America), Inc

3890 Steve Reynolds Blvd

Norcross, GA 30093

Tel: 1-404-279-5600

Hitachi Sales Corporation of Hawaii

WARRANTY CARD, front

3219 Koapaka St.
Honolulu, HI 96819
Tel: 1-808-836-3621

WARRANTY CARD, back

Warranty Limitations

The Limited Warranty provided by Hitachi does not cover:

- A. Antennas, cabinet, cabinet parts, knobs, batteries and accessories.
- B. Screens that have been cleaned with anything other than water and a mild soap solution.
- C. Lenses from units that have been sold or transferred from the original purchaser. Any lens element that is permanently attached to the CRT assembly is excluded from the lifetime warranty. The labor to repair or replace will be at no charge during the one year warranty duration. Labor charges to repair or replace lenses found to be defective after the one year warranty duration will not be covered.
- D. Any new product purchased or service performed outside of the continental United States or its possessions.
- E. Uncrating, setup, installation, or adjustments of customer operated controls.
- F. Repairs or replacement parts supplied by other than an Authorized Hitachi Service Facility.
- G. Any defect, malfunction, or failure caused by or resulting from improper service, maintenance, repair, or from abuse, neglect, accident or any other cause beyond the control of Hitachi.
- H. Any product used for commercial or industrial purpose.
- J. Any unit that has been sold or transferred from the original owner.

This limited warranty is made only to the original consumer purchaser of this Hitachi Projection TV and is effective only upon presentation of evidence of provable date of purchase.

NO PERSON, AGENT, DISTRIBUTOR, DEALER, SERVICE FACILITY, OR COMPANY IS AUTHORIZED TO CHANGE, MODIFY OR AMEND THE TERMS OF THIS LIMITED WARRANTY IN ANY MANNER OR FASHION WHATSOEVER. EXCEPT AND TO THE EXTENT PROVIDED IN THIS LIMITED WARRANTY, HITACHI MAKES NO EXPRESS WARRANTY REGARDING THIS HITACHI PRODUCT. FURTHER, ALL IMPLIED WARRANTIES RELATING TO ANY PORTION OF THIS PRODUCT, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THE APPLICABLE EXPRESS WARRANTY CONTAINED ABOVE. HITACHI SHALL NOT BE LIABLE TO THE PURCHASER OR TO ANY OTHER PERSON FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE OR LOSS OF PROFIT OR PRODUCT RESULTING FROM ANY DEFECT IN OR MALFUNCTION OR FAILURE OF THIS HITACHI PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Important Notice:

Retain your sales receipts for warranty purposes. Please complete the section below for your records, as it may be needed in the event of loss.

HITACHI
Projection TV
Limited Warranty Registration
(For your record - Attach sales receipt to this card)
Model no.
Serial no.
Dealer Name
Date of Purchase
Dealer Address
City
State
Zip

¹Introduced in 94-95 line. Mention as current model!!!

Warranty: 1 yr Labor, 1 yr Parts, Lifetime Lenses, 90 days screen, 2 yrs CRT's.

46UX16B/17K: 950 Lines resolution, Advanced high-resolution PIP, Dolby Pro-Logic surround sound, Ultrablack high contrast screen, Illuminated genius remote control, Velocity scan modulation.

50UX18B/19K: 950 Lines resolution, Advanced high-resolution PIP, Dolby Pro-Logic surround sound, Ultrablack high contrast screen, Illuminated genius remote control, Velocity scan modulation.

50SX6P | 60SX8B/9K: 1000 Lines resolution, Advanced high-resolution PIP, Dolby Pro-Logic surround sound, Ultrablack high contrast screen, Illuminated genius remote control, Velocity scan modulation.

²**You can always either lock or unlock any one of the four channels using code "777", regardless of what the key number actually is. Code "777" will always lock or unlock each station.**